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SB ALL @ AMSAT $ANS-265.01
SAREX/STS-35 MISSION DELAYED

HR AMSAT NEWS SERVICE BULLETIN 265.01 FROM AMSAT HQ
SILVER SPRING, MD SEPTEMBER 22, 1990
TO ALL RADIO AMATEURS BT

STS-35/SAREX Mission Delayed; Rescheduled Launch Date Planned For Dec. 1, 1990

NASA officials were forced to scrub the launch of STS-35 on Sept. 11, 1990 due to the recurrence of a hydrogen leak in the aft engine compartment. Because this leak appeared to be much worse than leaks previously encountered, NASA officials will again roll the Shuttle Columbia back to the "hanger" to perform needed repairs. During the time that the repairs are being performed on Columbia, the Shuttle Discovery will be made ready for lift-off. Discovery carries a "time-critical" payload, known as Ulysses, which must be launched within a thirteen day period beginning Oct. 5, 1990. After the Ulysses mission comes a classified DoD launch on the Shuttle Atlantis. This mission is planned for November 10, 1990. NASA planners are working on a December 1, 1990 launch for STS-35/SAREX. Although four launch attempts would try the patience of even the most stalwart SAREX enthusiast, it is evident that NASA remains committed to completing the STS-35 mission goals. AMSAT would like to thank the many dedicated volunteers who have worked so hard to make the Shuttle Amateur Radio Experiment a reality. As the launch of STS-35 approaches again, AMSAT and the ARRL will start to again publish the necessary information for the SAREX mission. Watch for bulletins from the AMSAT News Service (ANS) and W1AW bulletins in mid-November for updates on the progress of the STS-35/SAREX mission.

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SB ALL @ AMSAT $ANS-265.02
FO-20 UPDATE/SCHEDULE

HR AMSAT NEWS SERVICE BULLETIN 265.02 FROM AMSAT HQ
SILVER SPRING, MD SEPTEMBER 22, 1990
TO ALL RADIO AMATEURS BT

Latest Japanese Bird Still Experiencing Temperature Problems

The FO-20 Command Team at JARL report that FO-20 is continuing to experience high temperature problems which is forcing a drastic reduction of operations on the Bird. Unfortunately, because FO-20 is currently experiencing a period of eclipse-free orbits, the natural cooling off of the satellite during eclipse is not occurring. Therefore, the reduction of transponder operation availability is one way to reduce the internal temperature build up.

Although subject to change at any moment, this list is the current schedule of operation for FO-20:

From	To	Mode
25 Sep 90 0700	26 Sep 90 0910	JD, on demand
27 Sep 90 0740	28 Sep 90 0950	Continuous JD
01 Oct 90 0900	02 Oct 90 0910	PSK Telemetry acquisition
04 Oct 90 0955	04 Oct 90 2330	JA
08 Oct 90 0920	08 Oct 90 1110	JA and JD
11 Oct 90 0825	12 Oct 90 0850	JD

The above dates and time are in UTC.

The FO-20 Command Team will be monitoring satellite performance and operations during these times and may turn off the transponder if they determine that the satellite is in danger.

[ANS thanks the FO-20 Command Team for the information in this bulletin]

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SB ALL @ AMSAT $ANS-265.03
AMSAT SYMPOSIUM TALKS, PT 1

HR AMSAT NEWS SERVICE BULLETIN 265.03 FROM AMSAT HQ
SILVER SPRING, MD SEPTEMBER 22, 1990
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Wide Variety of Topics to be Presented at AMSAT Symposium

This year's AMSAT Symposium will be held during the weekend of October 19, 20, and 21 at the Johnson Space Center (JSC) Visitors Center. Presentations will be held in the Visitor's Center Auditorium, and have been scheduled for all three days of the weekend. The talks have been scheduled in serial alignment so that you will not have to choose between two talks at any given time.

Friday's talks, which begin at 3:00 PM include: Satellite Image Processing for the Amateur, AMSAT-NA Education Activities and finishing with AMSAT Orbital Data Management. Saturday's activities begin at 8:00 AM. A scan of the program lists talks on such topics as:

The Decoding Telemetry from the Amateur Satellites
In-Orbit Performance of 4 Microsat Spacecraft
A discussion of AO-13's Orbit
A report on the Phase 3D Project
Phase 4 Technology as it Applies to Phase 3D
Macromets and Microsats
A Pacsat Demonstration
Microsat Motion, Stabilization, and Telemetry
Full Motion Digital Video Via Amateur Satellites
SAREX Hardware for STS-35 and 37
Astronaut Deployable Satellites
Webersat Operations and Experiment Results
AMSAT-NA Operations Organization
The Development of 2 DSP Modems

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SB ALL @ AMSAT $ANS-265.04
AMSAT SYMPOSIUM TALKS, PT 2

HR AMSAT NEWS SERVICE BULLETIN 265.04 FROM AMSAT HQ
SILVER SPRING, MD SEPTEMBER 22, 1990
TO ALL RADIO AMATEURS BT

Saturday evening's activities will be held at the JSC Employee's Recreation Center and with the ever-popular Attitude Adjustment Hour which is followed by a Texas Bar-B-Que Dinner. AMSAT is very fortunate to have as its Guest Speaker Mr. Aaron Cohen, Director, Johnson Space Center. Following Mr. Cohen's address the AMSAT-NA Annual Meeting will be held.

Sunday's activities begin at 9:00 AM and the topics to be presented will be: Getting Started in Amateur Satellites, Building a Versatile Homebrew Satellite Ground Station and Poor Boy Satellite Station. For those who can delay their

departure time until late Sunday, there will be a chance to attend an open house (starting at 1:00 p.m.) at the world's largest amateur antenna, W5UN, the station that brought DO-17 (Dove) back to life.

When making airline reservations, please note that Hobby Airport is MUCH closer to JSC than Houston Intercontinental Airport. Contact AMSAT Headquarters at 301-589-6062 for further information on Symposium registration and accommodations.

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SB ALL @ AMSAT $ANS-265.05
SAT ACTIVITY FROM ZIMBABWE

HR AMSAT NEWS SERVICE BULLETIN 265.05 FROM AMSAT HQ
SILVER SPRING, MD SEPTEMBER 22, 1990
TO ALL RADIO AMATEURS BT

Final weekend for Four Special Callsign Stations

You have only one more weekend to pick up on four special prefix callsigns sponsored by OSCAR enthusiasts from Zimbabwe. Z21HJ/R and Z21GH along with the active support of the Zimbabwe Amateur Radio Society have been sponsoring four separate satellite stations operating from four different locations around Zimbabwe. These stations have been issued the call-signs: Z21SAT, Z22SAT, Z23SAT and Z24SAT (pre-fix hunters should find some interest in these calls). The stations have been found on Mode B around the frequency of 145.905 MHz.

Special QSL cards will be available for each of the four stations. ANS has been informed that QSLs will be sent either via the bureau or, if a speedier reply is desired, the standard DX-QSL protocol of including an IRC will hasten the card reciprocation.

In addition to the special QSL cards, those stations who have worked at least two of the four call signs will qualify for the "ZIMBABWE SATELLITE ACHIEVEMENT AWARD 1990". This beautiful award is based on African culture and shows the famous Victoria Falls in the background. The award will be available for a nominal donation. Further information on QSLing and the award should be available from the stations during the operation.

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SB ALL @ AMSAT $ANS-265.06
OPERATIONS NET SCHEDULE

HR AMSAT NEWS SERVICE BULLETIN 258.06 FROM AMSAT HQ
SILVER SPRING, MD SEPTEMBER 22, 1990
TO ALL RADIO AMATEURS BT

AMSAT-NA Operations Net Schedule Announced

AMSAT Operations Nets are planned for the following times. Mode B nets are conducted on an AO-13 downlink frequency of 145.950. Mode J/L nets are conducted on an AO-13 downlink frequency of 435.970.

Date	Phs	mode	UTC	NCS	Alt.	U.S. day
28 Sep 90	171	J/L	0100	KA5SMA	N5BF	Thursday
9 Oct 90	172	J/L	0015	WD0E	WB9ANQ	Monday
- 15 October 90 reorientation to 180/0 -						
21 Oct 90	98	J/L	1800	WB6LLO	W5RRR*	Sunday
27 Oct 90	135	B	1300	WB9ANQ	KA5SMA	Saturday

* Most NCS operators will be at the AMSAT Symposium at JSC in Houston, TX
on 21 October 90. As a result, this net may be cancelled.

Nets are scheduled for North American geographic coverage and time zones
although other parts of the world are often within the footprint and checkins
from everywhere are welcome. Those who don't have adequate and convenient
coverage from this net are encouraged to schedule their own nets via AO-13.

Write to AMSAT Headquarters with your schedule and we will run it in ANS.

For information on the amateur satellite program and how you can participate,
contact AMSAT-NA Headquarters at P.O. Box 27, Washington, DC 20044, phone
(301) 589-6062, or contact your local AMSAT Area Coordinator.

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SB ALL @ AMSAT $ANS-265.07
AO-13/AO-10 TRANSPONDER SKED

HR AMSAT NEWS SERVICE BULLETIN 265.07 FROM AMSAT HQ
SILVER SPRING, MD SEPTEMBER 22, 1990
TO ALL RADIO AMATEURS BT

A new Transponder Schedule for AO-13 was put into effect on September 8 which
is planned to continue through October 17.

Mode S operation has been eliminated for the time being since relatively poor
solar panel illumination does not allow sufficient power for proper battery
maintenance during Mode S and S/B periods. Satellite reorientation (a.k.a.
magnetorquing) is scheduled to commence on October 15 and once it has been
completed, it is expected that Mode S will be returned to service.

The present transponder schedule for AO-13 is as follows:

Mode-B   : MA 003 to MA 165
Mode-JL   : MA 165 to MA 195
Mode-B   : MA 195 to MA 240
Off   : MA 240 to MA 003 (Mode B Beacon On)
Omni Antennas   : MA 240 to MA 060

The September 10 attitude estimate is:

BLON = 205 and BLAT = -7

AMSAT-OSCAR-10 appears NOT TO have been receiving sufficient solar panel
illumination to support Mode-B transponder operations. Both beacon and
transponder signals show signs of FMing. Until further notice please DO
NOT use AO-10's transponder.

It is expected that AO-10 may once again receive sufficient solar illumination
to support Mode-B transponder operation by sometime in November.

/EX

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